

Date: Tue, 21 Dec 93 04:30:14 PST
From: Ham-Ant Mailing List and Newsgroup <ham-ant@ucsd.edu>
Errors-To: Ham-Ant-Errors@UCSD.Edu
Reply-To: Ham-Ant@UCSD.Edu
Precedence: Bulk
Subject: Ham-Ant Digest V93 #149
To: Ham-Ant

Ham-Ant Digest Tue, 21 Dec 93 Volume 93 : Issue 149

Today's Topics:

 6m portable advice
 Antenna Tuner Questions
 Commercial Antenna Tuners
 Hamfest
 License
 need ht antenna recommendation (mobile and base)

Send Replies or notes for publication to: <Ham-Ant@UCSD.Edu>
Send subscription requests to: <Ham-Ant-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Ant Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-ant".

We trust that readers are intelligent enough to realize that all text
herein consists of personal comments and does not represent the official
policies or positions of any party. Your mileage may vary. So there.

Date: Mon, 20 Dec 1993 20:30:38 GMT
From: dog.ee.lbl.gov!newshub.nosc.mil!news!usenet@network.ucsd.edu
Subject: 6m portable advice
To: ham-ant@ucsd.edu

I'm getting more and more interested in 6m SSB. I use an M2 Sqloop now,
but want an antenna I can use for drive-up hilltop portable use. I have
a Bronco II with a pair of Yakima bars for a rack where I carry the antennas
when we contest rove or just go and set up somewhere with a view.
I told you that so you'd be able to consider my constraints and capabilities.

What antennas have you had luck with on 6m (50.1 SSB/CW) which are suitable
for portable use? What about pre-amps? Which ones and why?
Have you had trouble with other antennas mounted on the same mast causing
interference? Note that I'm not doing EME here, just hilltop DX for contests
and general fun.
My rig is a TS-690. I'm considering an amp too, but the antenna is first.

Antennas I'm considering include:

- + M2 beam (which one? anyone own the short ones?)
- + Bandmaster Quad (I like the 432 6elem quad I bought from them.)
- + Something I'll build. Still gathering plans and ideas. I don't have a shop or many tools so, I'm a bit limited in my building capabilities. However, I'm considering a wooden boom. Remember this is NOT a permanent installation and will only have to cope with wx I am willing to cope with.

email comments, or post. I'll collect and post interesting comments I get.
Thanks for your interest. email to: keating@nosc.mil

Roger - KD6EFQ

Roger Keating, Cognitive Engineer PS&E keating@nosc.navy.mil | KD6EFQ
Naval Command, Control and Ocean Surveillance Center RDTE DIV | VHF DX is
NRaD Advanced Afloat System HCI - Code 44209 | Fun!
53245 Patterson Rd, San Diego CA 92152-7150 USA | Try it.

Date: 19 Dec 93 03:38:16 GMT

From: psinntp!iat.holonet.net!rohrwerk@uunet.uu.net

Subject: Antenna Tuner Questions

To: ham-ant@ucsd.edu

kg7bk@indirect.com (Cecil Moore) writes:

>I am teaching a ham class and have been asked questions that I can't
>answer (not unusual) but I can't find the answer in the Handbook or
>Antenna Book... Here they are:

[items axed]

>3. What is the transfer function of a transmission-line transformer type
>Balun? i.e. Does a 4:1 Balun transform $1000 + j1000$ to approximately
> $250 + j250$ or is it like the coax series-section transformer equations?

>thanks, Cecil, kg7bk@indirect.com

A nice theoretical question. Just a thought on the practical level: from what I've read, the use of transmission line "baluns" on the output of antenna tuners is absurd when matching reactive loads, like using a dipole fed with balanced line on several bands. Feb. 1990 QST deals with a tuner that puts the balun (1:1, current-type) on the INPUT so you don't have to deal with this. There are some other articles I remember somewhere about

the behavior of transmission-line transformers with reactive loads, but can't place them.

What your students should really hear is that your typical commercial antenna tuner with the balun on the output is taking the cheap way out. It may work after a fashion, but if you do it right (a true balanced tuner, one example of which is the item referred to above), you will have a non-radiating balanced feedline, and a good multiband antenna system (if you don't mind twiddling with knobs).

John K0JD

Date: 20 Dec 93 23:20:26 GMT
From: ogicse!uwm.edu!cs.utexas.edu!sdd.hp.com!col.hp.com!srigenprp!
alanb@network.ucsd.edu
Subject: Commercial Antenna Tuners
To: ham-ant@ucsd.edu

Charles R. Hohenstein (Charles.R.Hohenstein.1@nd.edu) wrote:

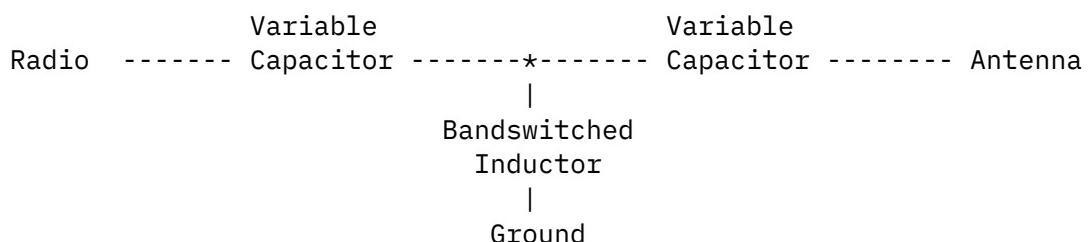
: Are there any balanced tuner designs commercially available? What is the
: Johnson Matchbox, which is frequently mentioned in the rec.radio
: newsgroups?

I'm not up on currently-available tuners but, as a certified "old fart," I can comment on the Johnson Matchbox. :=)

It's basically a tuned circuit with a link-coupled output, as I recall. Its big advantage over most modern tuners is that it has a true balanced output, without the need for an external balun. If you are feeding twinlead or open-wire feedline, the Matchbox is the hot ticket. It can also work with coax output by shorting one side of the link to ground.

: As described by MFJ, the 986 differential T tuner certainly sounds
: convenient--only two adjustments to make, only one optimum setting instead
: of multiple dips. Does it work as well in practice as in theory?

IMO, a T-network is an excellent way to go, in the following arrangement:



It has a wide matching range, for both high and low load impedances and requires no variable inductor. The one disadvantage is that it does little to attenuate harmonics, being a high-pass structure. However, most tuners do little to attenuate VHF harmonics (the ones that cause TVI) anyway, so I don't consider that to be much of a disadvantage.

AL N1AL

Date: 20 Dec 93 16:29:10 GMT
From: vnet.IBM.COM@uunet.uu.net
Subject: Hamfest
To: ham-ant@ucsd.edu

I thought someone told me there is to be a hamfest in Yonkers in January, but I don't see it listed in ARRL's HAMFEST-USA file. Can someone tell me if there is such a hamfest, and its time and place?

Regards, Evan Jennings

Date: Mon, 20 Dec 1993 15:25:09 GMT
From: uunet.ca!uunet.ca!dmog10.bell.ca!news@uunet.uu.net
Subject: License
To: ham-ant@ucsd.edu

In article <2esgu1\$8f4@dancer.cc.bellcore.com> whs70@dancer.cc.bellcore.com (sohl,william h) writes:
>In article <16CA76B51S85.R3RLB@VM1.CC.UAKRON.EDU>,
> <R3RLB@VM1.CC.UAKRON.EDU> wrote:
>>I am interested in getting a radio license and don't what to do or where to
>
>Call the ARRL (Amateur Radio Relay League) at 1-800-326-3942 and they'll
>send you a "New Ham" info package with contact information, etc.
>
>You can also immediately order the license manual for Novice and Technician
>class licenses by calling the ARRL order line at 1-203-666-1541.
>The license manual/study guide is: "Now You're Talking", item #4173, \$19.
>

I would be interested in this too.....
Is this ARRL and the Phone nos. valid for us in the Great White North?
I haven't come across a Canadian group yet, but then I don't know where
to look either.

Date: Tue, 14 Dec 1993 17:36:58 -0600
From: swrinde!cs.utexas.edu!math.ohio-state.edu!magnus.acs.ohio-state.edu!
usenet.ins.cwru.edu!agate!dog.ee.lbl.gov!hellgate.utah.edu!cc.usu.edu!NewsWatcher!
user@network.ucsd.edu
Subject: need ht antenna recommendation (mobile and base)
To: ham-ant@ucsd.edu

I'd like to get recommendations on 2m antenna for use with an ht for
base, mobile and as a portable.

I have read recommendations on the AEA hotrod (\$25) for rubber duck
replacement. I am thinking on using this for home, portable and
mobile use (using one of those bnc clips over the car window glass).
any comments ?

the AES store seems to be pushing their Diamond line of mobile antenna.
the antenna itself cost like \$30, but the mount cost \$50 (I think).
any comments/recommendations on mobile antennas ? also for base
antenna for use at home (apartment).

please email replies if possible.
thanks in advance.

jerry

End of Ham-Ant Digest V93 #149

